

b = total of specific column containing X;

a = total of specific row containing X;

50 and still further including

(d) means for using calculated likelihood ratios from the above mathematical expressions  
to create the array of likelihood ratios that are multiplied together with the [pre] pre-test odds  
factor to create the possible post-test outcome that indicates a possible disease and probability for  
the disease, according to the following mathematical expression:

55 (3) Pre-test odds x LR<sub>1</sub> x LR<sub>2</sub> x LR<sub>3</sub> x LR<sub>4</sub> ... x LR<sub>n</sub> = Post-test odds, wherein

LR<sub>1-n</sub> = positive and negative likelihood ratios calculated according to equations

(1) and (2) above.

13. (cancelled)

14. (cancelled)

60 15. (cancelled)

#### REMARKS

This paper is filed as a supplemental amendment following an interview that took place  
on November 30, 2005.

During the interview, the examiner indicated that claim 12 set forth allowable subject  
matter over the prior art in light of the prior amendment. The above amendments are submitted  
in response to concerns about possible Sec. 101 and 112 issues in light of recent case law that  
may have relevance to the claimed subject matter.

Applicant's use of "means plus function" language in the above claim amendments is  
intended to cast claim limitations in the form specifically permitted by statute, as set forth in 35  
U.S.C. Sec. 112. Applicant intends for these limitations to cover corresponding structure,

materials, or acts described in the specification and equivalents thereof, as per the terms of the statute.

Once again, applicant wishes to thank the examiner for her thorough analysis and examination of the prior art in the office action.

Applicant respectfully requests an indication of allowable subject matter.

Respectfully submitted,

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I, Bruce A. Kaser, hereby certify that this document and its attachments are being deposited with the U.S. Postal Service as First Class Mail, postage prepaid, in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 2<sup>nd</sup> day of December, 2005. I also certify that this document was faxed to the U.S. Patent and Trademark Office (fax numbers 571-273-8300 and 571-273-6774) on this 2<sup>nd</sup> day of December, 2005.

Bruce A. Kaser  
Name (signature)